

BRUHAT BANGALORE MAHANAGARA PALIKE

YELHANKA ZONE ELECTRICAL DIVISION

Name of Work:-Detailed Estimate for Providing and Supplying Electrical Fitting and timer in
Yelahanka Division (Providing and Supplying of Remaining Electrical Fittings to Yelahanka Lake of
Yelahanka Subdivision)

Budget Head

Division No.....

Estimate No.

For Rs.

4000000.00

Sl. No.	SR Page & SL No	Description of Work	Qty.	Rate Rs. Ps.	Unit	Amount
		Yelahanka kere ballanced work				
1	22/4.1 6	Supplying High pressure Sodium Vapour street light luminaire 250Watts suitable for use with high pressure Sodium Vapour lamp with integrated control gear & grey color power coated. The fitting shall be non corrosive pressure die cast aluminum housing with high purity anodized aluminum reflector with EPDM Gaskets suitable for Outer Dia of pole 40mm - 60mm. Cable Entry through a cable gland with toggle clips. IP65 Protection for both optical & Electrical Compartment. Bottom cover may be with Poly carbonate/tempered/ toughened glass. Luminaire efficiency should be >60% & ambient temperature > 35 deg C. High Intensity Discharge Electro Magnetic Ballast with Copper winding of Orthocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety & IEC 60923 - Performance. Winding Temperature for HID Ballast Tw = 130 deg C & temperature rise ?T = 70 deg C. Luminaire shall be suitable to operate on 230/250 Volts finish including wiring, suitable to operate on 230/250 Volts 50 Hz AC supply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass.	100	6900.00	Nos	690000.00
2	108/17 .2.2	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.pipe	100	893.00	each	89300.00
3	AR	Decorative Carbon and Steel pole light: Lighting pole arrangement with steel pole of Dia 165mm, 4mm thick, height of the pole 3000mm, with a base plate of 300mm square of thickness 15mm. The pole is galvanized and painted black outside. The pole has perforations that are internally covered with acrylic tube. There is an arrangement of fixing retrofit CFL of 36 Watts. The main lighting source consists of 150 Watts M.H G-12 lamp suitably wired with ballast, ignitor, condenser etc., The reflector is placed on a triangular frame and the reflector is made of ABS material including supplying and fixing foundation bolts manufactured from special steel along with nuts, washers, anchor plates and templates with all lead and lift other incidental charges etc., all complete as per the standard specification.	10	29500.00	Each	295000.00

34/5.1 4.5	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom mm, top.....mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended.7 meters - Top 70mm and bottom 130mm dia	14	12240.00	Each	171360.00
5 27/4.36.1	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts	9	31250.00	Nos	281250.00

	pwd sr 14-15	Providing Rcc Pole pedestal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed	14	4199.00	Each	58786.00
7	4.37.3	Supplying of LED Floodlight with W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer.LED Floodlight 110W	16	17593.00	Nos	281488.00
8	55/7.4. 6	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	6900	140.40	Per Mtr	968760.00
		3.5 core 35 sqmm	700	204.00	Per Mtr	142800.00
9	61/7.8. 2	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	6900	10.80	Per Mtr	74520.00
		b)25sqmm to 75 sqmm	700	16.00	Per Mtr	11200.00
10	62/7.9. 1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB 1-2, P-7).a) In soil (ordinary)	5280	78.00	Per Mtr	411840.00
	48/6.3 3	Supplying, fixing and wiring electronic 10 to 40 Amps three phase 4 wire class-1 Accuracy Energy Meter.	5.00	4900.00	Nos	24500.00

10	62/7.9.1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB I-2, P-7).a) In soil (ordinary)	5700	78.00	Per Mtr	444600.00	✓
11	62/7.9.5	e) C.C. cutting	50	212.00	Per Mtr	10600.00	✓
12	23/4.2	Supplying High pressure Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. Fitting shall be non corrosive high pressure die cast aluminum housing powder coated with toughened and heat resistant glass with low copper content black/grey powder coated paint finish with EPDM gasket. Reflector shall be made of high purity pre-anodized aluminum. Cable entry through cable gland with toggle clips. IP 65 protection for both and optical and electrical compartment. Bottom cover may be with polycarbonate / tempered toughened glass. Luminaire efficiency should be > 60% and ambient temperature > 35 deg C. High intensity discharge Electro magnetic ballast with copper winding of Octocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety and IEC 60923 performance. Winding temperature for HID ballast tw = 130 deg C and temperature rise ?T - 70 deg C. Luminaire shall be suitable to operate on 230/250V. Vobe Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrica	13	6699.00	each	87087.00	✓
13	6/2.6.7	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring. I Group A Materials. 1.5 sqmm	700	15.90	Per Mtr	11130.00	✓
14	2/1.1.2	Open Conduit System: Supplying heavy gauge PVC conditpipe,....., dia confirming to IS 2509 with suitable size bends, junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. c) 25mm dia 2mm thick	4650	70.00	Per Mtr	325500.00	✓
15	15.6.1	Supply, installation, testing and commissioning of booster amplifier with power handling of 250 to 300 watt RMS 4ohms Dual and 100/70 volt output on bridge mode single channel Rack mountable Specs: frequency response : 20 htz to 20khtz	4	27550.00	Nos	110200.00	✓
		Total				3605187.00	✓
		KRIDL Charges Rs 9.1%				328072.02	✓
		Bescom & Mislenious charges				66740.98	✓
		Grand Total Rs				4000000.00	✓

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 /lowest quotation rates/ approved rates.

K.N. Babji
Asst. Engineer (Elec)

[Signature]
Asst. Exe. Engineer (Elec).
Sub-Division No.

Bruhat Bangalore Mahanagara Palike

[Signature]
EXECUTIVE ENGINEER (ELEC)

Technical Sanction
Accorded For **40.00 lakhs**
Head of A/C **P 3089**
CER NO : **3A** Dt: **23/05/2017**

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TA
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CE (YNK)